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## Computational Fluid Dynamics (CFD) Market Global Report 2015-2019

Research Report on " Computational Fluid Dynamics (CFD) Market Global Report 2015-2019 ".

### About CFD

CFD is a software application that helps end-users analyze the flow, turbulence, and pressure distribution of liquids and gases, and their interaction with structures. It also helps in predicting fluid

flow, mass transfer, chemical reactions, and related phenomena. CFD uses high-speed computers, and various numerical methods and solvers to simulate the flow of fluids (gases and liquids). Simulation refers to the digital prototype of the real-world scenario. This helps detect errors in design before proceeding to production. CFD finds wide ranging applications in industries such as automotive, aerospace and defense, electrical and electronics, and energy. CFDs are used to design fuel systems, engine core compartments, cockpit and cabin ventilation, missiles, submarines, and evaluate aerodynamics in the aerospace and defense industry.

Technavio's analysts forecast the global CFD market to grow at a CAGR of 13.6% over the period 2014-2019.

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### **Covered in this report**

Based on end-users, the global CFD market can be segmented into: aerospace and defense industry, automotive industry, electrical and electronics industry, industrial machinery industry, material and chemical processing industry, energy industry, and others.

Technavio's report, Global CFD Market 2015-2019, has been prepared based on an in-depth market analysis with inputs from industry experts. The report covers the Americas, APAC, and EMEA; it also covers the market landscape and its growth prospects in the coming years. The report also includes a discussion on the key vendors operating in this market.

### **Key regions**

- Americas
- APAC
- EMEA

### **Key vendors**

- ANSYS
- CD-adapco
- Dassault Systmes
- EXA
- Mentor Graphics

### **Other prominent vendors**

- Altair Engineering
- Autodesk
- CEI
- COMSOL
- ESI
- MSC Software

**Market driver** : Availability of high performance computing systems

**Market challenge** : Inaccurate prediction of fluid flow behaviour for highly complex geometries

**Market trend** : Demand for application specific CFD

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